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Effect of New Dialyzer Theranova® on Uremic Pruritus in Patients on Maintenance Hemodialysis

Chang Hun Song, Young Rok Hahm, Dae Eun Choi, Ki Ryang Na, Kang Wook Lee
Department of Internal Medicine-Nephrology, Chungnam National University Hospital, Korea, Republic of

Objectives: Introduction: The high flux dialyzers in standard hemodialysis offer numerous benefits for ESRD patient. New dialyzer with a medium cut-off membrane(Theranova®, Baxter Healthcare), featuring an innovative membrane, effectively targets large middle molecules not efficiently removed by currently available dialysis treatment. We evaluated the efficacy of Theranova® dialyzer on the uremic pruritus in patients on maintenance hemodialysis..

Methods: Method: Seventeen end-stage renal failure patients complaining of uremic pruritus on maintenance hemodialysis for more than 3 months were included in this study. All patient underwent three sessions of regular maintenance hemodialysis per week with Theranova® dialyzer instead of previous conventional Revaclear® dialyzer(Baxter). The magnitude of itching was assessed with 5-D itch scale and visual analogue scale (VAS). And we compared the data of blood chemistry, hematocrit, Kt/V and itching with baseline values, 3 months after switching to Theranova® dialyzer(Baxter).

Results: Results: Theranova® dialyzer was well accepted by all the patients and no serious adverse event was observed. The main results are showen in Table 1. Data are reported as mean ± standard deviation(SD). 5-D itching scale showed a tendency of improvement of uremic pruritus, 3 months after switching to new dialyzer but there was no statically significant difference. Other data did not show significant difference.

Conclusions: Conclusion: In a short-term, hemodialysis with Theranova® dialyzer showed a tendency of improvement of uremic pruritus but statically not significant.

Table1. Comparison baseline and after 3-months data

	Baseline	After 3 months	*P*
	mean±SD	mean±SD	
Hb	10.94±1.07	10.98±0.87	0.903
Phosphate	4.92±1.60	4.65±1.14	0.567
KT/V	1.51±0.20	1.53±2.42	0.723
B2 MG	22.76±4.93	25.43±11.68	0.396
5D Scale	9.35±4.03	7.35±2.31	0.086
VAS	3.00±2.64	2.06±2.46	0.291